Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

Linear Area Light (LAL4)

Outdoor Linear Area Light

IP65 IK08



OVERVIEW	
Lumen Package (lm)	3,000 - 18,000
Wattage Range (W)	24 - 144
Efficacy Range (LPW)	120 - 135
Weight lbs (kg)	7.6 - 12.3 (3.4 - 5.6)
Controls	IMSBT, ALB, 7-Pin, PCI

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- 4" x 4" formed housing available in 4 lengths: 22", 32", 40", 48".
- Fully enclosed weather-tight housing contains factory prewired drivers and field connections.
- Easily accessible electrical components via driver cover.
- Luminaire is proudly made in the U.S.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.

Optical System

- Select high-brightness LEDs in 2700K, 3000K, 3500K, 4000K, 5000K
- Minimum CRI of 80
- Distribution types 2, 3, 4 and 5 available - asymmetric optics are factory rotatable.
- State-of-the-Art silicone optics deliver industry leading optical control with an integrated gasket
- Zero Uplight
- Integral shield (IS) option available for enhanced backlight control.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC)
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2)
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- 0-10V dimming (10% - 100%) standard. Must specify EXT option for dimming leads.
- Total harmonic distortion (THD): <20% Power factor (PF): >.90

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLinkBlue wireless control system utilizes an external antenna for long range communications allowing for Bluetooth mesh up to 100' from node to node. Ensures reliable wireless communications for a wide variety of applications.

Installation

- Designed to mount to a square pole. For round poles a round pole adapter is required.
- Utilizes LSI's B2 and B2R drill patterns. Specify B2R pattern for flush mounting with the top of a pole.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations
- IP65 rated luminaire per IEC 60598.
- 1.5G vibration rating.
- DarkSky Approved with 3000K color temperature selection.
- IK08 rated luminaire per IEC 66262 mechanical impact code.
- Buy American Act (BAA) and Build America, Buy America (BABA) Compliant Fixture.
  - Compliance dependent on SKU and configuration. Confirm with factory.

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Linear Area Light (LAL4) Outdoor Linear Area Light

Type : _____

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ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: LAL4 48 12L 3 UNV 30K8 BLK ALBMR1LR IS

Prefix	Length	Lumen Package[2]	Distribution	Rotation[3]	Voltage
LAL4[1] - 4" Linear Area Light	**22** - 22" (6L max) **32** - 32" (6L max) **40** - 40" (12L max) **48** - 48" (6L-18L only)	**3L** - 3,000 lumens **6L** - 6,000 lumens **9L** - 9,000 lumens **12L** - 12,000 lumens **15L** - 15,000 lumens **18L** - 18,000 lumens	**2** - Type 2 **3** - Type 3 **4** - Type 4 **5** - Type 5	**Blank** - No Rotation **L** - Optics rotated left 90° **R** - Optics rotated right 90°	**UNV** - Universal Voltage (120-277V) **HV**- High Voltage (347-480V)

Color Temperature/Rendering	Finish	Controls	Options
27K8 - 2700K CCT / 80CRI **30K8** - 3000K CCT / 80CRI **35K8** - 3500K CCT / 80CRI **40K8** - 4000K CCT / 80CRI **50K8** - 5000K CCT / 80CRI	**BRZ** - Dark Bronze **BLK** - Black **GMG** - Gun Metal Gray **GPT** - Graphite **MSV** - Metialic Silver **WHT** - White **PLP** - Platinum Plus **SVG** - Satin Verde Green	**Blank** - None **Wireless Controls System** **ALBMR1LR** - AirLink Blue Long Range Wireless Multi-Range Sensor Controller (8-15' MH)[4] **ALBMR2LR** - AirLink Blue Long Range Wireless Multi-Range Sensor Controller (16-40' MH)[4] **Stand-Alone Controls** **EXT** - 0-1 0v Dimming leads extended to housing exterior **CR7P** - 7-Pin Control Receptacle ANSI C1 36.41[5] **IMSBT1L** - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)[4] **IMSBT2L** - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)[4] **Button Type Photocells** **PCI120** - 120V **PCI208-277** - 208-277V **PCI347** - 347V	**Blank** - None **ISXX**[6] - Integral Shield **RP** - Round Pole Adapter for Mounting to 4" or 5" OD Round Pole

Need more information?
Click here for our glossary

Have additional questions?
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ACCESSORY ORDERING INFORMATION[7]

Part Number	Description
122514	PC120 Photocell for use with CR7P option (120V)[8]
122515	PC208-277 Photocell for use with CR7P option (208V, 240V, 277V)[8]
159516	Twist Lock Photocell (347V) for use with CR7P[8]
1225180	Twist Lock Photocell (480V) for use with CR7P[8]
661410	AirLink 7-Pin Twist Lock Controller[8]
149328	Shorting Cap for use with CR7P

FUSING OPTIONS[9]

Part Number	Description
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

MOUNTING ACCESSORIES ORDERING INFORMATION[6]

Part Number	Description
674299CLR	Square Pole Tenon Adapter
740022CLR	15° Square Pole Quick Mount Bracket
750441CLR	Wall Mount Bracket
751534CLR	Square Pole Quick Mount Bracket
BKS PQMH RD B2 CLR	Round Pole Quick Mount Bracket[10]
BKS PQ15 RD B2 CLR	15° Round Pole Quick Mount Bracket[10]
751631	10' Linear Bird Spike Kit (3-4' Recommended per Luminaire)
751632	Silicone Adhesive for Bird Spike Kit (Covers Approximately 25' of Linear Spike)

Luminaire Shown with ALBMR Option



Luminaire Shown with Round Pole Adapter



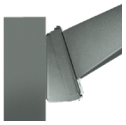
1 Use with B2 or B2R drilling patterns.
2 Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
3 Not available with type 5 distribution.
4 Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
5 Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
6 "XX" to be replaced by luminaire length (22, 32, 40, 48)
7 Accessories are shipped separately and field installed.
8 Factory installed CR7P option required. See Options.
9 Fusing must be located in the hand hole of pole.
10 "CLR" to be replaced by paint finish selection. See Finish options for paint color selections.

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ACCESSORIES

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MOUNTING ACCESSORIES

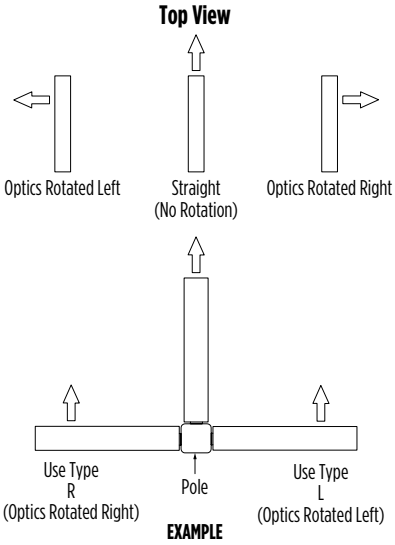
	Description	
Side Arm	**Quick Mount Plate** True one person installation to existing/new construction poles with hole spaces between 2.4" - 4.6" **Part Number: BKS PQMH B2 XX CLR**	
Side Arm	**15° Tilt Quick Mount Plate** True one person installation to existing/new construction poles with hole spaces between 2.4" - 4.6" **Part Number: BKS PQM15 B2 XX CLR**	
Tenon / Slipfitter	**Square Tenon Top** Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires per bracket **Part Number: BKA B2NM ***	
Tenon / Slipfitter	**Square Internal Slipfitter** Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires per bracket **Part Number: BKA B2_ISF * CLR**	
Wall Mount/ Wood Pole	**Wall Mount Bracket** Mounts onto vertical wall surface (hardware/anchors not included) **Part Number: BKS B2 WM CLR**	
Wall Mount/ Wood Pole	**Wood Pole Bracket** Mounts onto wooden poles (6" minimum OD, hardware/anchors not included) **Part Number: BKS B2 WP CLR**	

POLES & MISC. ACCESSORIES

	Description	
Misc.	**Bird Spikes** 10' Linear Bird Spike Kit, 4' recommended per luminaire **Part Number: 736795**	
Misc.	**Bird Spike Adhesive** Silicone Adhesive for Bird Spike Kit (Covers Approximately 25' of Linear Spike) **Part Number: 751632**	
Poles	**Square Poles** 14' - 39' steel and aluminum poles in 4", 5", and 6" sizes for retrofit and new construction **Part Number: 4SQ/5SQ/6SQ**	
Poles	**Round Poles** 10' - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction **Part Number: 4RP/5RP**	
Poles	**Tapered Poles** 20' - 39' steel and aluminum poles for retrofit and new construction **Part Number: RTP**	

Notes:
Replace CLR with paint finish description
Repleace XX with SQ for square pole or RD for round pole (≥3" OD)
Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)
Replace _ with 4 (4" square pole) or 5 (5" square pole)

OPTICS ROTATION



OPTIONS

Integral Shield (IS)



Integral shield (IS) option available for improved backlight control with minimal impact to street side performance. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Shields rotate with the optical distribution.

7-Pin Photoelectric Control



7-Pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

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Linear Area Light (LAL4) Outdoor Linear Area Light

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PERFORMANCE

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Delivered Lumens[1]

Lumen Package	Distribution	CRI	2700K CCT			3000K CCT			3500K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
3L	2	80	2,732	109	B1 U0 G1	2,891	116	B1 U0 G1	2,956	118	B1 U0 G1	3,047	122	B1 U0 G1	3,038	122	B1 U0 G1	25
	3	80	2,682	109	B1 U0 G1	2,838	115	B1 U0 G1	2,902	116	B1 U0 G1	2,991	121	B1 U0 G1	2,982	121	B1 U0 G1	
	4	80	2,682	108	B1 U0 G1	2,838	114	B1 U0 G1	2,902	116	B1 U0 G1	2,991	120	B1 U0 G1	2,982	120	B1 U0 G1	
	5	80	2,727	110	B2 U0 G1	2,885	116	B2 U0 G1	2,950	118	B2 U0 G1	3,041	124	B2 U0 G1	3,032	122	B2 U0 G1	
6L	2	80	5,442	112	B1 U0 G1	5,758	119	B1 U0 G1	5,887	123	B1 U0 G1	6,069	125	B1 U0 G1	6,051	125	B1 U0 G1	48
	3	80	5,342	110	B1 U0 G1	5,652	117	B1 U0 G1	5,780	120	B1 U0 G1	5,957	123	B1 U0 G1	5,940	123	B1 U0 G1	
	4	80	5,342	110	B1 U0 G1	5,652	117	B1 U0 G1	5,779	120	B1 U0 G2	5,957	123	B1 U0 G2	5,940	123	B1 U0 G2	
	5	80	5,432	112	B3 U0 G1	5,746	119	B3 U0 G1	5,876	122	B3 U0 G1	6,057	125	B3 U0 G1	6,039	125	B3 U0 G1	
9L	2	80	8,108	113	B1 U0 G1	8,578	120	B1 U0 G2	8,771	122	B1 U0 G2	9,042	126	B2 U0 G2	9,015	126	B2 U0 G2	72
	3	80	7,959	111	B2 U0 G2	8,420	118	B2 U0 G2	8,611	120	B2 U0 G2	8,876	124	B2 U0 G2	8,849	124	B2 U0 G2	
	4	80	7,959	111	B2 U0 G2	8,420	118	B2 U0 G2	8,611	120	B2 U0 G2	8,876	124	B2 U0 G2	8,849	124	B2 U0 G2	
	5	80	8,092	113	B3 U0 G2	8,561	120	B3 U0 G2	8,754	122	B3 U0 G2	9,024	126	B3 U0 G2	8,997	126	B3 U0 G2	
12L	2	80	10,850	111	B2 U0 G2	11,478	117	B2 U0 G2	11,737	120	B2 U0 G2	12,099	123	B2 U0 G2	12,063	123	B2 U0 G2	98
	3	80	10,650	108	B2 U0 G2	11,267	115	B2 U0 G2	11,521	118	B2 U0 G2	11,876	121	B2 U0 G2	11,841	121	B2 U0 G2	
	4	80	10,650	108	B2 U0 G2	11,267	115	B2 U0 G2	11,521	118	B2 U0 G2	11,876	121	B2 U0 G2	11,841	121	B2 U0 G2	
	5	80	10,828	110	B4 U0 G2	11,456	117	B4 U0 G2	11,714	120	B4 U0 G2	12,075	123	B4 U0 G2	12,039	123	B4 U0 G2	
15L	2	80	13,629	117	B2 U0 G2	14,418	124	B2 U0 G2	14,743	126	B2 U0 G2	15,198	130	B2 U0 G2	15,153	130	B3 U0 G3	117
	3	80	13,378	115	B3 U0 G3	14,153	121	B3 U0 G3	14,472	124	B3 U0 G3	14,919	128	B3 U0 G3	14,874	127	B3 U0 G3	
	4	80	13,378	115	B2 U0 G2	14,153	121	B2 U0 G2	14,472	124	B2 U0 G2	14,919	128	B3 U0 G3	14,874	127	B2 U0 G2	
	5	80	13,602	117	B4 U0 G2	14,390	123	B4 U0 G2	14,714	126	B4 U0 G2	15,168	130	B4 U0 G2	15,123	130	B4 U0 G2	
18L	2	80	16,251	113	B2 U0 G2	17,192	120	B2 U0 G2	17,579	122	B2 U0 G2	18,122	126	B3 U0 G3	18,068	126	B3 U0 G3	144
	3	80	15,952	111	B3 U0 G3	16,876	118	B3 U0 G3	17,256	120	B3 U0 G3	17,789	124	B3 U0 G3	17,736	124	B3 U0 G3	
	4	80	15,952	111	B3 U0 G3	16,876	118	B3 U0 G3	17,257	120	B3 U0 G3	17,789	124	B3 U0 G3	17,736	124	B3 U0 G3	
	5	80	16,219	113	B4 U0 G2	17,158	120	B4 U0 G2	17,545	122	B4 U0 G2	18,086	126	B4 U0 G2	18,032	126	B4 U0 G2	

Electrical Data (AMPS)[2]

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
3L	25	0.20	0.12	0.10	0.09	0.07	0.05
6L	48	0.40	0.23	0.20	0.17	0.14	0.10
9L	72	0.60	0.34	0.30	0.26	0.21	0.15
12L	98	0.82	0.47	0.41	0.35	0.28	0.20
15L	117	0.97	0.56	0.49	0.42	0.34	0.24
18L	144	1.20	0.69	0.60	0.52	0.41	0.30

1 LED Chips are frequently updated therefore values are nominal.
2 Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

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PHOTOMETRICS

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Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

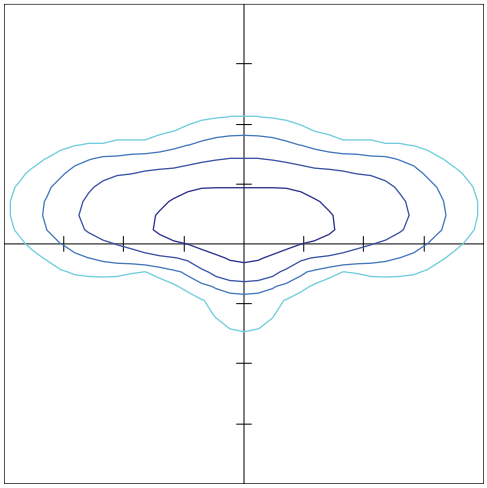
See the individual product page on https://www.lsicorp.com/ for detailed photometric data.

LAL4-48-18L-2-40K8

Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 80 CRI
Delivered Lumens	18,121
Watts	144
Efficacy	126
IES Type	Type II Medium
BUG Rating	B3 U0 G3

Zonal Lumen Summary		
Zone	**Lumens**	**% Luminaire**
Low (0-30°)	4,024	22%
Medium (30-60°)	8,961	49%
High (60-80°)	4,994	28%
Very High (80-90°)	142	1%
Uplight (90-180°)	-	0%
Total Flux	18,121	100%

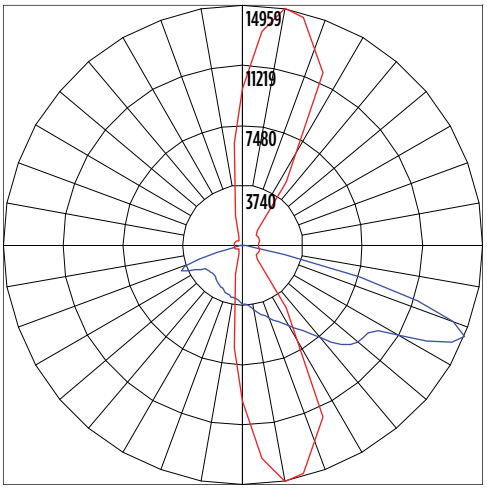
ISO Footcandle



20' Mounting Height / 20' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

Polar Curve



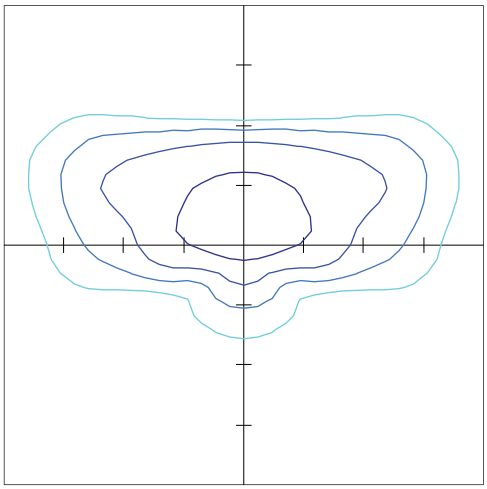
Vertical Plane Horizontal Cone

LAL4-48-18L-3-40K8

Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 80 CRI
Delivered Lumens	17,789
Watts	144
Efficacy	124
IES Type	Type III Short
BUG Rating	B3 U0 G3

Zonal Lumen Summary		
Zone	**Lumens**	**% Luminaire**
Low (0-30°)	3,201	18%
Medium (30-60°)	8,852	49%
High (60-80°)	5,515	30%
Very High (80-90°)	221	1%
Uplight (90-180°)	-	0%
Total Flux	17,789	100%

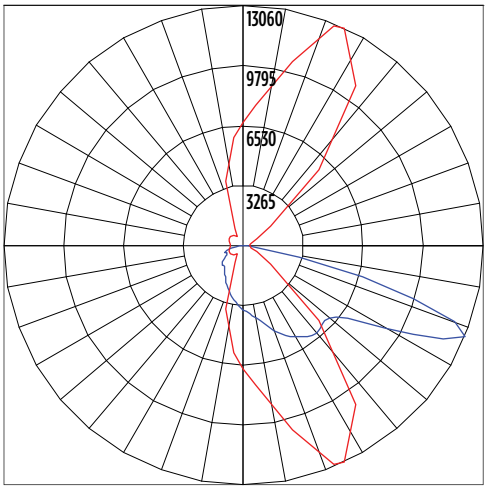
ISO Footcandle



20' Mounting Height / 20' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

Polar Curve



Vertical Plane Horizontal Cone

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PHOTOMETRICS

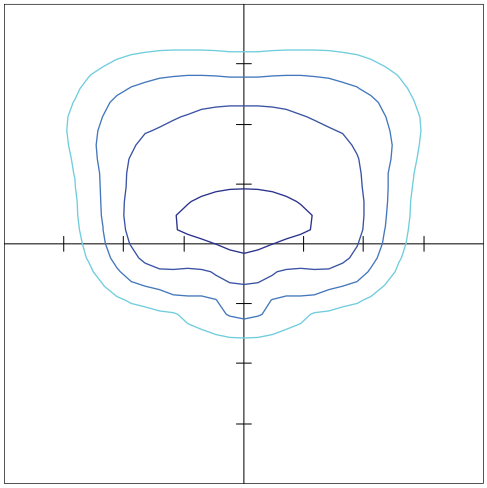
Back to Quick Links

LAL4-48-18L-4-40K8

Luminaire Data	
Type 4 Distribution	
Description	4000 Kelvin, 80 CRI
Delivered Lumens	17,790
Watts	144
Efficacy	124
IES Type	Type IV Short
BUG Rating	B3 U0 G3

Zonal Lumen Summary		
Zone	**Lumens**	**% Luminaire**
Low (0-30°)	2,126	12%
Medium (30-60°)	8,638	48%
High (60-80°)	6,757	37%
Very High (80-90°)	270	1%
Uplight (90-180°)	-	0%
Total Flux	17,790	100%

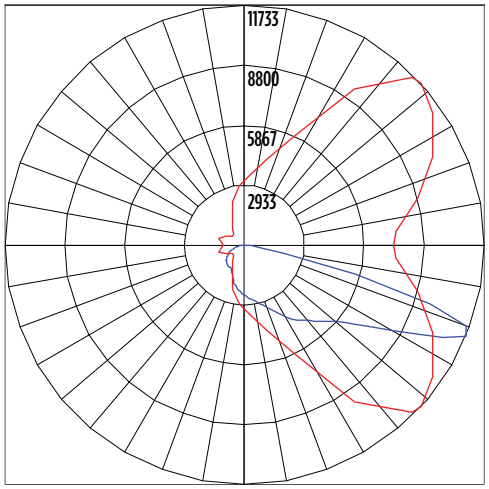
ISO Footcandle



20' Mounting Height / 20' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

Polar Curve



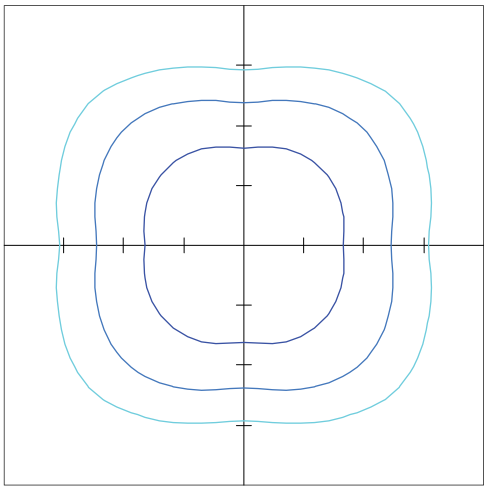
Vertical Plane Horizontal Cone

LAL4-48-18L-5-40K8

Luminaire Data	
Wide Distribution	
Description	4000 Kelvin, 80 CRI
Delivered Lumens	18,086
Watts	144
Efficacy	126
IES Type	Type VS Short
BUG Rating	B4 U0 G2

Zonal Lumen Summary		
Zone	**Lumens**	**% Luminaire**
Low (0-30°)	1,248	7%
Medium (30-60°)	7,793	43%
High (60-80°)	8,870	49%
Very High (80-90°)	175	1%
Uplight (90-180°)	-	0%
Total Flux	18,086	100%

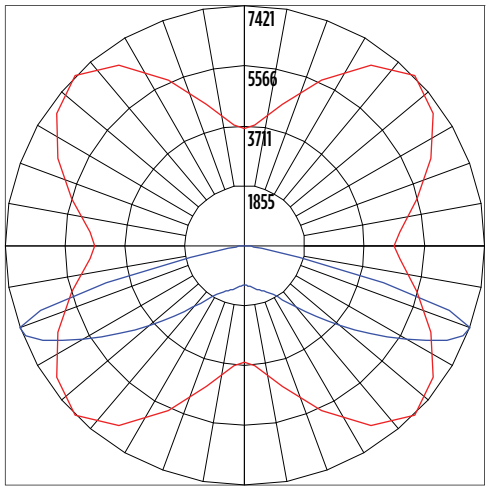
ISO Footcandle



20' Mounting Height / 20' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

Polar Curve



Vertical Plane Horizontal Cone

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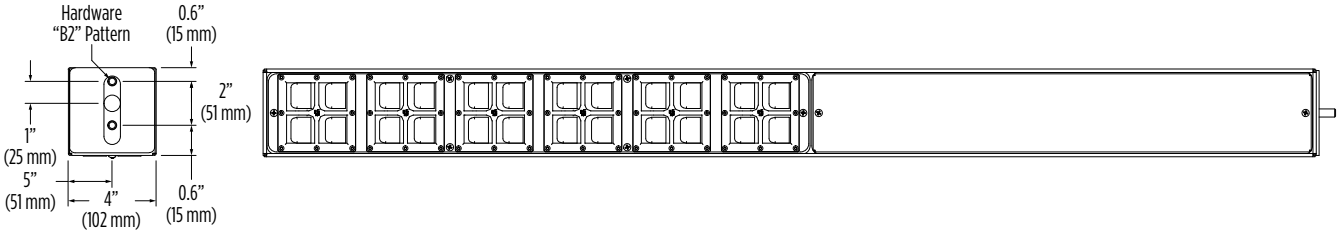
Linear Area Light (LAL4) Outdoor Linear Area Light

Type : _____

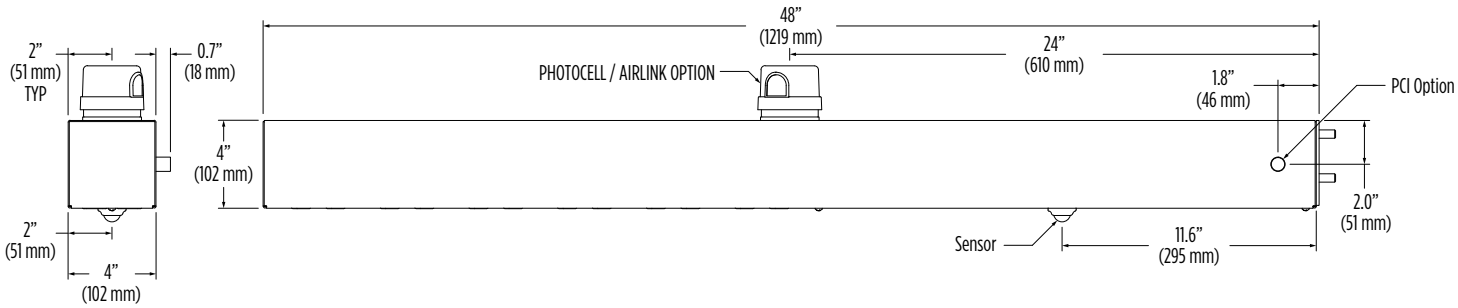
Have questions? Call us at (800) 436-7800

PRODUCT DIMENSIONS

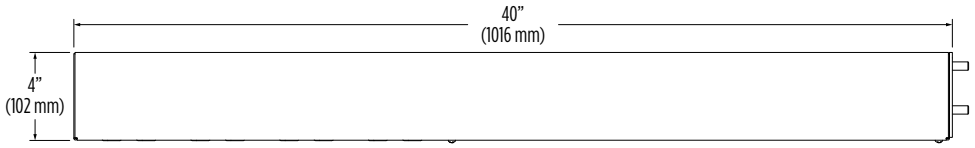
Back to Quick Links



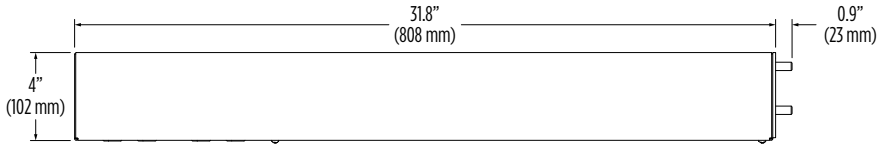
LAL4 48



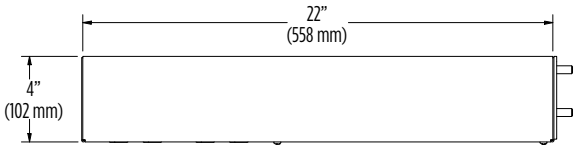
LAL4 40



LAL4 32



LAL4 22



Luminaire EPA Chart - LAL4					
Configurations			22"	32"	40"	48"
Single	D90°		.07	1.1	1.3	1.6
D180°	T90°	Q90°	1.4	2.2	2.6	3.2

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CONTROLS

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Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

Click here to learn more details about IMSBT

LEVITON App Apple Android

AirLink Blue (ALBMRxLR, ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

Click here to learn more details about AirLink Blue

AirLink Blue App Apple

Sensor Sequence of Operations

Standard Programming	On Event	Off Event	On Light Level	Dim Light Level	Daylight Harvesting	Delay To Off	Sensitivity
OMSBTxL/IMSBTxL	Motion	No Motion	100%	N/A	On; Auto Calibration	20 minutes	High
OMS	Motion	No Motion	N/A	N/A	N/A	30 seconds	Auto

Operation	Description
On Event	Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.
Off Event	Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.
On Light Level	The light level that the fixtures will turn on to when ON EVENT occurs.
Dim Light Level	The light level that the fixtures will dim down to when no motion is detected.
Delay to Dim	The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.
Delay to Off	The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.
Sensitivity	The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view.

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